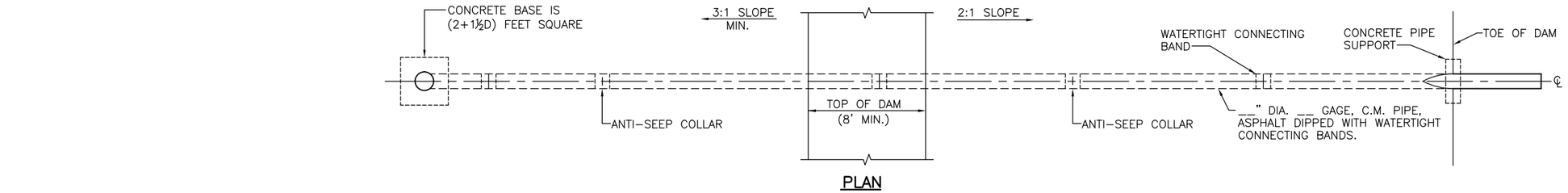
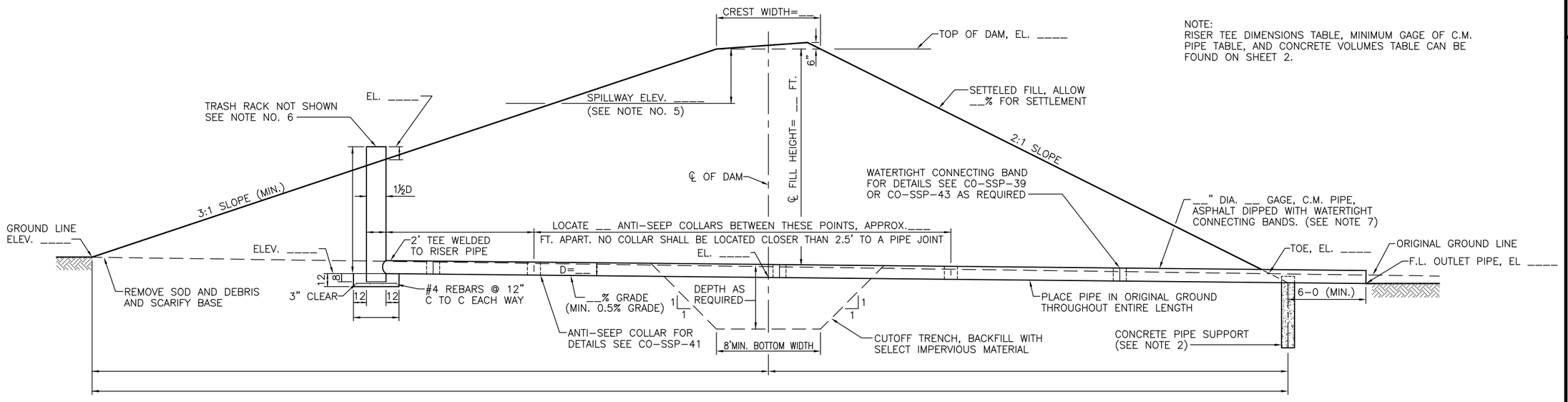
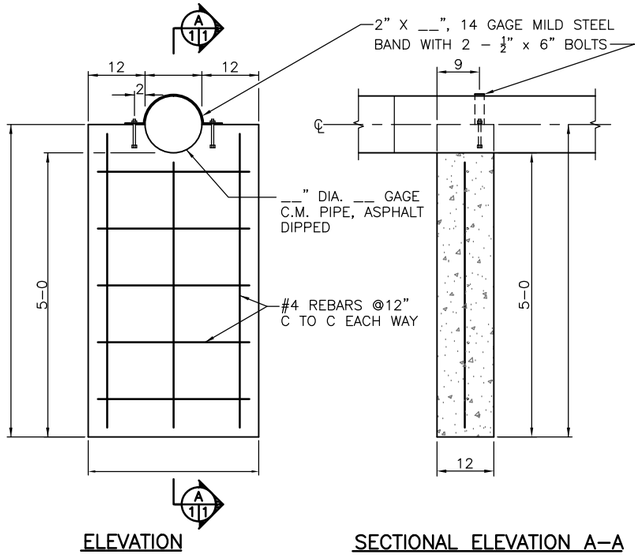


PLAN



SECTIONAL ELEVATION OF DAM ALONG CENTERLINE OF DROP INLET

NOTE:
RISER TEE DIMENSIONS TABLE, MINIMUM GAGE OF C.M. PIPE TABLE, AND CONCRETE VOLUMES TABLE CAN BE FOUND ON SHEET 2.



ELEVATION SECTIONAL ELEVATION A–A

CONCRETE PIPE SUPPORT DETAILS

MINIMUM GAGE OF C.M. PIPE

DIA. OF PIPE (IN.)	AREA OF PIPE (SQ. FT.)	GAGE OF PIPE FOR 0 TO 19 FEET OF FILL HEIGHT
12	0.785	16
14	1.069	16
15	1.23	16
16	1.40	16
18	1.77	16
21	2.41	16
24	3.14	14
30	4.91	14

CONCRETE VOLUMES

PIPE DIA. D (IN.)	BASE AT ELBOW (C.Y.)	CONCRETE PIPE SUPPORT (C.Y.)
12	0.454	0.263
14	0.521	0.302
15	0.593	0.321
16	0.593	0.340
18	0.750	0.379
21	0.926	0.438
24	0.926	0.497
30	1.333	0.618

NOTES

1. SUFFICIENT ANTI–SEEP COLLARS TO INCREASE THE PATH OF PERCOLATION BY 15% SHALL BE INSTALLED WITHIN THE UPSTREAM TWO–THIRDS (2/3) LENGTH OF THE OUTLET PIPE. MAXIMUM SPACING OF ANTI–SEEP COLLARS SHALL BE 25 FEET.
2. CONCRETE PIPE SUPPORT IS OPTIONAL DEPENDING ON SITE CONDITIONS. WHEN PIPE SUPPORT IS USED, IT SHOULD BE LOCATED AT THE INTERSECTION OF BACK SLOPE OF DAM AND BOTTOM OF PIPE.
3. D = DIAMETER OF BARREL.
4. HELICAL CORRUGATED PIPE MAY BE USED ONLY IF WATERTIGHT CONNECTING BANDS ARE USED.
5. THIS DESIGN TO BE USED WITH WATER DEPTHS OF 15 FEET OR LESS.
6. FOR DETAILS OF TRASH RACK AND BAFFLE PLATE FOR C.M. PIPE RISERS SEE CO–SSP–60 OR 61.
7. WHERE SOIL CONDITIONS WARRANT, ASBESTOS BONDED (OR ITS EQUIVALENT) CORRUGATED METAL PIPE MAY BE USED.
8. STANDARDIZED DESIGNS – MUST BE ADAPTED TO THE SPECIFIC SITE.
9. THE STRUCTURE SHALL CONFORM TO ENGINEERING STANDARD AND SPECIFICATIONS 378, POND.

	DATE
DESIGNED C.R.H.	06-27-60
DRAWN D.D.D.	04-20-12
CHECKED	
APPROVED J.E. ANDREWS, S.C.E.	04-20-12

STOCKWATER DAM WITH TRICKLE TUBE SPILLWAY AND APPURTENANCES

(REVISED LAST ON 04-12)

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

FILE NO.

DRAWING NO.
CO–SSP–58

SHEET 1 OF 1